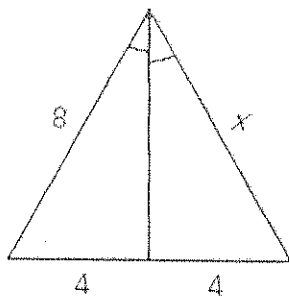
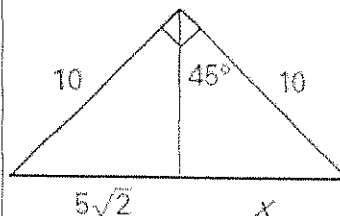


7. Find  $x$ .



8. Find  $x$ .

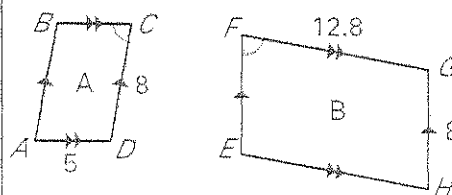


9. List all pairs of congruent angles for the polygons. Then write the ratios of the corresponding sides in a statement of proportionality.

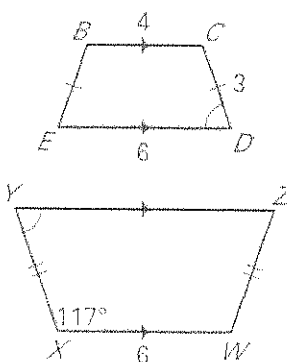
a.  $\triangle STU \sim \triangle CDE$

b. quadrilateral  $CDEF \sim$  quadrilateral  $MNKL$

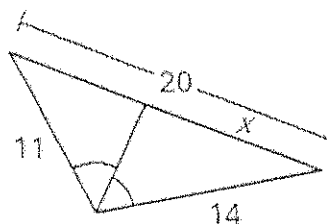
10. Determine whether the polygons are similar. If they are, write a similarity statement and find the scale factor of Figure A to Figure B.



11. In the diagram at the right, quadrilateral  $BCDE \sim$  quadrilateral  $WXYZ$ .



12. Find  $x$ .



- Find the scale factor of quadrilateral  $BCDE$  to quadrilateral  $WXYZ$ .
- Find the scale factor of quadrilateral  $WXYZ$  to quadrilateral  $BCDE$ .
- Find  $XY$ .
- Find  $m\angle C$ .
- Find the perimeter of quadrilateral  $WXYZ$ .

Name \_\_\_\_\_

Date \_\_\_\_\_

**LESSON 6.6** **Practice B**  
For use with pages 396–403

Use the figure to complete the proportion.

1.  $\frac{GC}{CF} = \frac{?}{DB}$

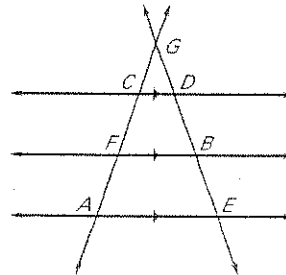
2.  $\frac{AF}{FC} = \frac{?}{BD}$

3.  $\frac{CD}{FB} = \frac{GD}{?}$

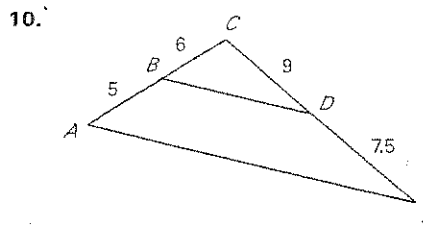
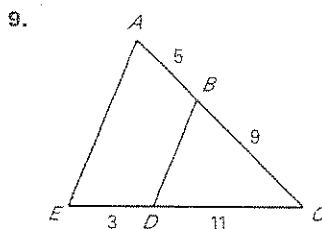
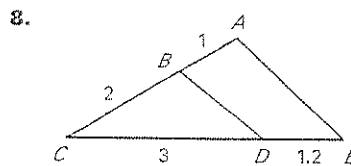
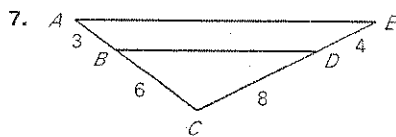
4.  $\frac{AE}{CD} = \frac{GE}{?}$

5.  $\frac{FG}{AG} = \frac{FB}{?}$

6.  $\frac{GD}{GE} = \frac{?}{AE}$



Use the given information to determine whether  $\overline{BD} \parallel \overline{AE}$ .



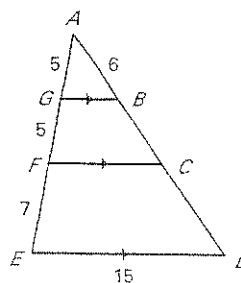
Determine the length of each segment.

11.  $\overline{BC}$

12.  $\overline{FC}$

13.  $\overline{GB}$

14.  $\overline{CD}$



In Exercises 15–18, find the value of  $x$ .

